

CLAIMS

1 **Claim 1. (Allowed) A light distribution device compri- 1**
 2 sing:
 3 a pair of light transmitting lens panels joined to form an integral unit³
 4 having a common base portion, each of said lens panels having a geometric⁴
 5 base, a front surface extending outwardly from one edge of said base and⁵
 6 a rear surface extending outward from the opposite edge of said base and⁶
 7 inclining toward the outer edge of said front surface,⁷
 8 a recess formed adjacent the base of at least one of said lens panels,⁸
 9 and⁹
 10 a light cartridge mounted within said recess in a manner to transmit¹⁰
 11 light through said lens panels and to allow said panels to be assembled with¹¹
 12 said bases in abutting relation with an adjacent surface.¹²

1 **Claim 2. (Allowed) The device of Claim 1 wherein:** 1
 2 at least one surface off said lens panel is jewel-cut. 2

1 **Claim 3. (Allowed) The device of Claim 1 wherein :** 1
 2 said base is rectangular. 2

1 **Claim 4. (Allowed) The device of Claim 1 wherein:** 1
 2 said base is triangular. 2

1 **Claim 5. (Allowed) The device of Claim 1 wherein:** 1
 2 said rear surface is mirrored. 2

1 **Claim 6. (Allowed) The device of Claim 1 wherein:** 1
 2 said rear surface is darkened. 2

1 **Claim 7. (Allowed) The device of Claim 1 wherein:** 1
 2 said rear surface is granulated. 2

1 **Claim 8. (Allowed) The device of Claim 1 wherein:** 1
 2 said rear surface is coated. 2

1 **Claim 9. (Allowed) The device of Claim 1 further comprising:** 1
 2 means external to said light distribution device delivering energy to²
 3 said light cartridge.³

1 **Claim 10. (Allowed) The device of Claim 9 wherein:** 1
 2 said external means supplies electrical energy to said cartridge.²

	Claim 11. (Allowed) The device of Claim 9 wherein: said external device supplies non-electric energy to said cartridge.	1 2
	Claim 12. (Allowed) The device of Claim 9 wherein: said external device supplies optical energy to said cartridge.	1 2
	Claim 13. (Allowed) The device of Claim 1 further comprising: means for controlling the amount of infrared radiation emitted by said light panels.	1 2 3
	Claim 14. (Allowed) The device of Claim 1 wherein: said front surface is flat.	1 2
	Claim 15. (Allowed) The device of Claim 1 wherein: said front surface is convex.	1 2
	Claim 16. (Allowed) The device of Claim 1 wherein: said front surface is concave.	1 2
	Claim 17. (Allowed) The device of Claim 1 wherein: said front surface is carved.	1 2
	Claim 18. (Alloowed) The device of Claim 1 wherein: said front surface is textured.	1 2
	Claim 19. (Allowed) The device of Claim 1 wherein: said front surface is etched.	1 2
	Claim 20. (Cancelled)	
	Claim 21. (Allowed) The device of Claim 1 wherein: said front surface is sculpted.	1 2
	Claim 22. (Allowed) The device of Claim 1 wherein: said front surface has material applied thereto to form letters.	1 2
	Claim 23. (Allowed) The device of Claim 1 wherein: said front surface has material applied thereto to modify the light transmitted from said front surface.	1 2 3
	Claim 24. (Allowed) The device of Claim 1 wherein: at least one of said lens panels contains a hollow portion.	1 2

1	Claim 25. (Allowed) The device of Claim 24 wherein:	1
2	said hollow portion of said lens panel is filled with fluid.	2
1	Claim 26. (Allowed) The device of Claim 1 wherein:	1
2	said light cartridge contains means for projecting television-like	2
3	signals onto said front surface of said light panel.	3
1	Claim 27. (Allowed) The device of Claim 1 comprising:	1
2	at least two of said lens panels having their bases attached and	2
3	extending outwardly from said bases in opposing relation.	3
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1	Claim 28. (Allowed) The device of Claim 1 comprising:	1
2	at least two of said lens panels having their bases attached and	2
3	extending outwardly from said bases with said front surfaces defining an	3
4	angle to each other.	4
1	Claim 29. (Allowed) The device of Claim 9 wherein:	1
2	said light cartridge contains a light source and said delivering means	2
3	is an electrical cable.	3
1	Claim 30. (Allowed) The device of Claim 9 wherein:	1
2	said delivering means is a light pipe.	2
1	Claim 31. (Allowed) The device of Claim 9 wherein:	1
2	said delivering means is a laser.	2
1	Claim 32. (Allowed) The device of Claim 1 wherein:	1
2	said cartridge includes light modifying means.	2
1	Claim 33. (Allowed) The device of Claim 32 wherein:	1
2	said light modifying means is a photomultiplier.	2
1	Claim 34. (Allowed) The device of Claim 32 wherein:	1
2	said light modifying means is a filter.	2
1	Claim 35. (Allowed) The device of Claim 32 wherein:	1
2	said cartridge contains a filter to pass only desired light frequencies	2
3	to said lens panel, and	3
4	a substance to be purified by said ultraviolet light is passed through	4
5	said hollow portion of said lens panel.	5

1 **Claim 36. (Allowed) The device of Claim 34 wherein:** 1
2 **said filter serves to control the amount of infrared light passed to** 2
3 **said light panels.** 3

1 **Claim 37. (Allowed) The device of Claim 1 wherein:** 1
2 **said device is mounted on the framing studs of a building to form a** 2
3 **floor panel for a room within said building.** 3

1 **Claim 38. (Allowed) The device of Claim 1 wherein:** 1
2 **said device is mounted on the framing studs of a building to form a** 2
3 **wall panel for a room within said building.** 3

1 **Claim 39. (Allowed) The device of Claim 1 wherein:** 1
2 **said device is mounted on the framing studs of a building to form a** 2
3 **ceiling panel for a room within said building.** 3

1 **Claim 40. (Allowed) The device of Claim 1 wherein:** 1
2 **said device is embedded in the ground to form a section of a** 2
3 **sidewalk.** 3

1 **Claim 41. (Allowed) The device of Claim 1 wherein:** 1
2 **said device is embedded in the ground to form a section of a road.** 2

1 **Claim 42. (Allowed) An article of furniture comprising:** 1
2 **at least one light distribution device having a pair of light transmit-** 2
3 **ting lens panels having a base a front surface extending outwardly from** 3
4 **one edge of said base and a rear surface extending outwardly from the op-** 4
5 **posite edge of said base and inclining toward the outer edge of said front** 5
6 **surface, and one of said lens panels formed with a recess adjacent said base,** 6
7 **and** 7
8 **a light cartridge mounted adjacent said base to transmit light** 9
9 **through said lens panel.** 9

1 **Claim 43. (Allowed) The device of Claim 1 wherein:** 1
2 **said lens panel is arcuate.** 2

1 **Claim 44. (Allowed) The device of Claim 1 wherein:** 1
2 **said device is mounted under water.** 2

1 **Claim 45. (Allowed) The device of Claim 1 wherein:** 1
2 **said device is mounted in an explosive atmosphere.** 2

1 **Claim 46. (Allowed) The device of Claim 1 wherein:** 1

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Claim 46. (Allowed) The device of Claim 1 wherein:
said device serves to regulate the temperature of the surrounding
area. 1
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Claim 47. (Allowed) The device of Claim 1 wherein:
said device serves as a sign. 1
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Claim 48. (Allowed) The device of Claim 32 wherein ;
said light modifying means projects images into said lens panel. 1
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Claim 49. (Allowed) The device of Claim 48 wherein:
said light modifying means is a television projection system 1
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51
Claim 50. (Cancelled)

52
Claim 51. (Allowed) A light-emitting structure including:
at least two lens panels, each of said lens panels comprising:
a geometric base, a front surface extending outward from one
edge of said base and a rear surface extending outward from the opposite
edge of said base and inclining toward the outer edge of said front surface;
said lens panels being mounted in base to base relation; and
a light cartridge connecting said bases and serving to deliver light
through said lens panels. 1
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Claim 52. (New) A structure comprising at least one light-emitting
panel as a structural component thereof, said panel comprising a
base, a front surface extending outwardly from one edge of said base and
a rear surface extending outward from the opposite edge of said base and
inclining toward the outer edge of said front surface.
a recess formed adjacent the base of at least one of said lens panels,
and
a light cartridge mounted within said recess. 1
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54
Claim 53. (New) The structure of Claim 52 wherein:
said structure is a piece of furniture. 1
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Claim 54. (New) The structure of Claim 52 wherein:
said structure is a vehicle-bearing surface. 1
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Claim 55. (New) The structure of Claim 52 wherein:
said light-emitting panel is hollow, and
means for supplying fluid through said panel. 1
2
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Claim 56. (New) The structure of Claim 53 wherein:
said structure is a sidewalk.

Claim 57. (New) The structure of Claim 56 wherein:
said light-emitting panel is hollow, and
means for supplying hot fluid through said panel.

59
Claim 57. (New) The structure of Claim 52 wherein: 1
said structure has an interior wall and said light-emitting panel forms 2
a structural component of said interior wall. 3

Claim 58. (New) The structure of Claim 52 wherein:
said structure has an exterior wall and said light-emitting panel forms
a structural component of said exterior wall.

Claim 59. (New) The structure of Claim 52 wherein:
said structure includes an architectural dome and said light-emitting
panel forms a structural component of said dome.

Claim 60. (New) The structure of Claim 52 wherein:
said structure is hollow and includes means for passing a fluid
through said panel, and
means for passing ultraviolet light through said panel to treat said
fluid.